

Multiplying a Fraction and a Whole Number

R 5-1Find $12 \times \frac{1}{4}$. $12 \times \frac{1}{4}$ is the same as dividing

12 by 4.

$$12 \div 4 = 3$$

$$12 \times \frac{1}{4} = 3$$

Find $\frac{3}{5}$ of 15, or $\frac{3}{5} \times 15$.

$$15 \div 5 = 3, \text{ so } \frac{1}{5} \times 15 = 3.$$

Since $\frac{3}{5}$ is 3 times $\frac{1}{5}$,

$$\frac{3}{5} \times 15 = 3 \times \left(\frac{1}{5} \times 15\right) = 3 \times 3 = 9.$$

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Find each product.

1. $\frac{4}{5} \times 20 =$ _____

2. $\frac{6}{7}$ of 14 = _____

3. $24 \times \frac{3}{4} =$ _____

4. $\frac{2}{5}$ of 15 = _____

5. $400 \times \frac{3}{8} =$ _____

6. $\frac{7}{10}$ of 80 = _____

7. **Reasoning** Can you use division and mental math to find $\frac{2}{3}$ of 24?
Why or why not?

The chart shows the average high temperatures for different months in Phoenix, Arizona.

Phoenix Weather

Month	Average High
February	70°F
May	93°F
July	105°F

8. What is $\frac{4}{5}$ the average temperature in July? _____
9. What is $\frac{1}{2}$ the average temperature in February? _____
10. What is $\frac{2}{3}$ the average temperature in May? _____